

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-001281**Date Inspected:** 24-Jan-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 730**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Xu Le Feng**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Caltrans mock up**Summary of Items Observed:**

Caltrans Quality Assurance (QA) Inspector, Dan Hernandez was present to observe the fit up, welding and related activities associated with the fabrication of the San Francisco Oakland Bay Self Anchored Suspension Bridge at Zhenhua Port Machinery Company (ZPMC) facility on Changxing Island.

89m Tower Mock Up

ZPMC Quality Control (QC) Certified Welding Inspector (CWI) Mr. Xu Le Feng was observed monitoring welding activities at the workstation. Caltrans QA Inspector observed FCAW in progress of fill passes on 89m Tower Mock Up MUSB-MA38 Skin E to MUSB-MA21 Skin A; weld joint MUB-M21 D/J 1B is a Complete Joint Penetration corner joint welded in the 2G position. The approved welder Li Zhaoqian # 048810 is using approved welding procedure specification WPS-B-T-2232-TC-U4b. Caltrans QA Inspector verified welding parameters at approximately 308 amps, 30 volts and 320 millimeters per minute (mm/min) travel speed. Preheat and interpass temperatures were verified during welding activities and were within approved WPS minimum and maximum range. FCAW welding consumable is verified and identified as classification Supercored 71H 1.4mm in diameter.

WELDING INSPECTION REPORT

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Summary of Conversations:

As identified within the contents of this report.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By: Hernandez,Dan

Quality Assurance Inspector

Reviewed By: Cuellar,Robert

QA Reviewer